

### EXPERIENCE THE RHYTHM OF YOUR LIFE

# Savor 4 Rooms of Pure, Clean Sound Whole Home Music System | Two Source Four Zone





## **ENGLISH**

#### Danger

Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably to noise induced hearing loss but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

 DURATION PER DAY (HOURS)
 8
 6
 4
 3
 2
 1

 SOUND LEVEL (dB)
 90
 93
 95
 97
 100
 103

According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Ear plugs or protectors in the ear canal or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss. If exposure in excess of the limits as put forth above, to insure against potentially harmful exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of inducing high sound pressure levels, such as this amplification system, be protected by hearing protectors while this unit is in operation.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE CHASSIS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF NON-INSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.



APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

#### IMPORTANT SAFETY INSTRUCTIONS

- 1. Read all safety and operating instructions before using this product.
- All safety and operating instructions should be kept for future reference
- 3. Read and understand all warnings listed on the operating instructions.
- 4. Follow all operating instructions to operate this product.
- 5. This product should not be used near water, i.e. Bathtub, sink,swimming pool, wet basement, etc.
- 6. Only use dry cloth to clean this product.
- Do not block any ventilation openings, It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
- 8. Do not install this product near any heat sources ;such as,radiators, heat registers, stove or other apparatus (including heat producing amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the 0ther. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord being walked on or pinched, particularly at Plugs, convenience receptacles and the point where they exit from the apparatus. Do not break the ground pin of the power supply cord.
- 11. Only use attachments specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation ports or any other openings.
- 15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as, power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
- 16. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



## **FRENCH**

#### Danger

L'exposition a des niveaux eleves de bruit peut provoquer une perte permanente de l'audition, Chaque organisme humain reagit differemment quant a la perte de l'audition, mais quasiment tout le monde subit une diminution de l'acuite auditive lors d'une exposition suffisamment longue au bruit intense. Les autorites competentes en reglementation de bruit ont defini les expositions tolerees aux niveaux de bruits:

DURE EN HEURES PAR JOUR	8	6	4	3	2	1	
INIVEAU SONORE CONTINU EN dB	90	93	95	97	100	103	

Selon les autorites, toute exposition dans les limites citees ci-dessus, peuvent provoquer certaines pertes d'audition. Des bouchons ou protections dans l'appareil auditif ou sur l'oreille doivent etre portes lors de l'utilisation de ce systeme d'amplification afin de prevenir le risque de perte permanente de l'audition, Dans le cas d'expositions superieures aux limites precitees il est recommande, afin de se premunir contre les expositions aux pressions acoustiquese I evees potentiellement dangeure u ses, aux personnes exposees aux equipements capables de delivrer de telles puissances, tels ce systeme d'amplification en fonctionnement, de proteger l'appareil auditif.



ATTENTION: AFIN DE LIMITER LE RISQUE DE CHO ELECTR/QUE, NE PAS ENLEVER LE CHASSIS. NE CONTIENT PAS DE PIECES POUVANT ETRE REPAREE PAR L'UTILISATEUR. CONFER LE SERVICE APRES-VENTE AUX REPARATEURS



CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE DE VOLTAGE DANGEREUX NON-ISOLE A L'INTERIEUR DE CE PRODUIT QUI PEUT ETRE DE PUISSANCE SUFFISAMMENT IMPORTANTE POUR PROVOQUER UN CHOC ELECTRIQUE AUX PERSONNES.



CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE D'INSTRUCTIONS D'UTILISATION ET DE MAINTENANCE DANS LES DOCUMENTS FOURNIS AVEC CE PRODUIT.



AFIN DE REDUIRE LES RISQUÉ D'INCENDIE ET DE DECHARGE ELECTRIQUE, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE.

#### IMPORTANTES INSTRUCTIONS DE SECURITE

- 1. Lire avec attention toutes les recommandations et précautions d'emploi avant d'utiliser ce produit.
- 2. Toutes les recommandations et précautions d'emploi doivent être conservées afin de pouvoir s'y reporter si nécessaire.
- 3. Lire et comprendre tous les avertissements énumérés dans les précautions d'emploi.
- 4. Suivre toutes les précautions d'emploi pour utiliser ce produit.
- 5. Ce produit ne doit pas être utilisé près d'eau, comme par exemple baignoires, éviers, piscine, sous-sol humides ... Etc.
- 6. Utiliser exclusivement un chiffon sec pour nettoyer ce produit.
- 7. Ne bloquér aucune ouverture de ventilation. Ne pas placer le produit tout contre un mur ou dans une enceinte fernée, cela gênerait le flux d'air nécessaire au refroidissement.
- Ne pas placer le produit près de toute source de chaeur telle que radiateurs, arrivées d'air chaud, fourneaux ou autres appareils générant de la chaleur (incluant les amplificateurs producteurs de chaleur).
- 9. Ne pas négliger la sécurité que procure un branchement polarisé ou avec raccordement à la terre, Un branchement polarisé comprend deux fiches dont l'une est plus large que l'autre. Un branchement à la terre comprend deux fiches plus une troisième reliée à la terre. Si la fiche secteur fournie ne s'insert pas dans votre prise de courant. consulter un 'électricien afin de remplacer votre prise obsolète.
- 10. Protéger le cordon d'alimentation de tout écrasement ou pincement, particulièrement au niveau des fiches, des réceptacles utilisés et à l'endroit de sortie de l'appareil. Ne pas casser la fiche de terre du cordon d'alimentation.
- 11. Utiliser uniquement les accessoires spécifiés par le constructeur.
- 12. Utiliser uniquement avec le chariot de transport, le support, le trépied, la console ou la table spécifiés par le constructeur ou vendus avec l'appareil. Lors de l'utilisation d'un chariot, bouger avec précaution l'ensemble chariotlappareil afin d'éviter les dommages d'un renversement.
- 13 Débrancher cet appareil lors d'orages ou s'il n'est pas utilisé pendant une longue période.
- 14. Des précautions doivent être prises afin qu'aucun objet ne tombe et qu'aucun liquide ne se répande à l'intérieur de l'appareil par les orifics de ventilation ou n'importe quelle autre ouverture.
- 15. Pour toutes interventions techniques s'adresser à un technicien qualifié.L'intervention technique est nécessaire lorsque l'appareil a été endommagé de n'importe quelle façon, comme par exemple si le cordon secteur ou sa fiche sont détériorés, si du liquide a coulé ou si des objets sont tombés à l'intérieur de l'apparei1, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il est tombé.
- 16. ATTENTION:Pour réduire le risque d'incendie ou de choc electrique ne pas exposer l'appareil à la pluie ou à l'humidité.



BreatheAudio<sup>TM</sup> – Elevate<sup>TM</sup>
Two-Source, Four Zone Whole Home Music System

Two-Source, Four Zone Whole Home Music System BA-2430

Congratulations on your decision to purchase BreatheAudio's new Elevate whole home music system. We hope that you will have hours and hours of enjoyment, while your home comes alive with the celebration of sound. This Elevate system is the first in our line of good, better and best systems and offers advanced technology and superior sound, but with the simplicity of user-friendly design and at a very attainable price.

Elevate provides clean, rich sound in a multi-source, multi-room application, that includes features more typically found in much more expensive units. With Elevate you can access two sound sources from elsewhere in your house, and play audio through speakers in up to four zones (or rooms). Elevate also has a built-in infrared repeater, which means that a remote control provided with either of the system's music devices can be remotely operated from any of the rooms that you have wired for sound by aiming the remote at the keypad. The IR receiver picks up the signal and sends it back to the selected source unit, responding to your every command.

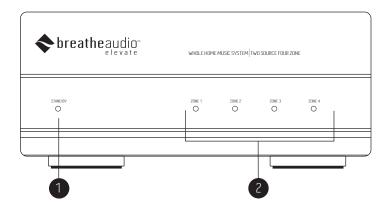
For it's easy—to—use design, Elevate provides some rather advanced features. Each listening zone can be turned on or off independently, with a quick press of the Power button. By holding the button for a second or more, all zones can be powered down from any keypad. A Mute function is available which allows a momentary silencing of the zone. The system also comes with a convenient handheld IR remote control which, when pointed at the zone keypad, duplicates ALL keypad zone—control functionality.

We hope that you will enjoy this new adventure in music in your home, and wish to hear any and all comments that you have about the features and overall performance of our product. As you set up and use your new Elevate<sup>TM</sup> system, please contact us and let us know what you think at:

Customer Service
Toll Free #: 866-889-1019

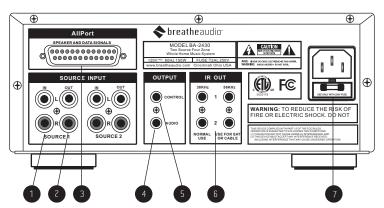
Email: Customer\_Service@breatheaudio.com





#### BA-2430 Front Panel Features

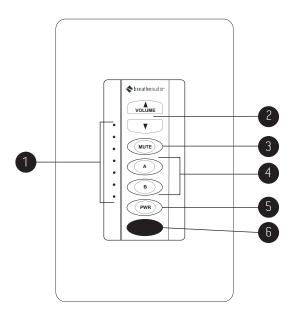
- 1 Stand-by: This LED (light-emitting diode) indicates that the 2430 System is plugged into an AC power source and the Power button is pushed.
- Zone LEDs: These light-emitting diodes indicate that a zone control keypad is turned on. When lit, that particular zone, 1–4, is turned on and active.



#### BA-2430 Back Panel Features

- Audio Source Inputs: The 2430 is designed to accept up to two audio sources. These are attached to the 2430 using a standard stereo RCA cable.
- 2 Allport<sup>TM</sup> Connection: An important feature of the BreatheAudio System is the single connection point for all of the speakers and Cat-5 control cables for each zone. This multi-pin connection is where the included Allport<sup>TM</sup> cable plugs into the main amplifier component.
- Audio Source Outputs: A feature of the 2430 is the ability to take an audio signal plugged into the audio inputs and send that signal to another device. That is done through the audio outputs using standard stereo RCA cables.
- 4 Audio: The audio signal selected for zone 4 can be easily sent to an external amplifier using this output. The volume level is then controlled from the zone control keypad.
- 5 Control: The 2430 allows the use of an external power amplifier for areas of the home that are larger and require more amplifier output. This voltage trigger is used for turning on the external amplifier when the zone control keypad is turned on. This insures that the amplifier is not left on indefinitely.
- 6 IR OUT: Each control keypad in every zone of the installation contains an IR receiver. This enables control of the audio sources using a wireless remote control. The 2430 has two choices for the operating frequency of the IR signal being sent to the audio source equipment, see pg. 11.
- AC Power: The 2430 must be plugged into an active AC power source. A detachable power cord is provided for this purpose. The main amplifier component is designed to be left on once it is turned on.





#### BA-2430KP Keypad

- 1 **Volume Indicator**: This series of seven LEDs provide a visual reference for the listening volume level. Each LED represents a 4 dB increase in the volume.
- 2 Volume Buttons: These buttons raise and lower the audio volume in that keypad's zone.
- 3 MUTE: The mute button temporarily silences the audio.
- 4 Source Selection Buttons: The buttons labeled A and B are for individual selection of the two audio sources plugged into the 2430 System. The selected source button will remain lit.
- 5 PWR: This ON/OFF button turns that keypad's zone on and off independently. If the keypad is turned on, pushing and holding this button will turn all the zones of the system off simultaneously.
- 6 **IR Receiver Window**: The 2430 System is designed to receive wireless remote control commands from both keypad controls of the system, or from the audio equipment connected to the system. The receiver for these commands is located under the red IR window.



## Pre-wiring the BA-2430 System

The 2430 System is designed to operate using two types of wire. Standard Cat-5 Network cable is used for keypad control of the system. Two- or four-conductor audio cable sends the audio signal to each pair of speakers in the four listening zones. Both types of wire should be concealed in the walls of the home and are installed on the back side of the BreatheAudio Allport<sup>TM</sup> (fig. 1). Proper termination of each of the cables is crucial to reliable operation of the entire system.

Be sure to label each Cat-5 for its appropriate zone. This is important for future reference.

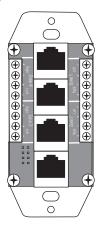
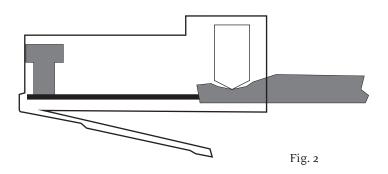


Fig. 1

#### Terminating Cat-5

Be careful not to place the Cat-5 runs next to AC power cables. Doing so will cause noise and interference in the data being sent to and from each zone. To avoid this interference it is best to leave at least one stud space between the Cat-5 and AC power lines. If it is necessary to cross AC wires, it should always be done at a 90 angle.

The Cat-5 cables are terminated using a modular RJ-45 jack (fig. 2). This is the same type of jack used on computer Ethernet cables. Each Cat-5 cable has four colored wires twisted together in pairs inside an outer jacket. Each pair consists of a solid and striped wire. The colors are green, orange, blue, and brown. The order of the colored wires inside the RJ-45 determines proper communication between the keypads and the main amplifier unit. The 2430 System uses the standard Ethernet or network color scheme referred to as 568A.





#### Properly Crimping an RJ-45 Jack

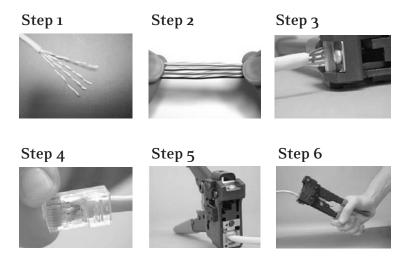
First and foremost is a good crimp tool. There are several RJ–45 crimpers on the market, but the best is a ratchet–style tool. The tool is designed to squeeze eight brass conductors through the individual wire insulation so they make contact with the internal brass strands. Each of the eight conductors must make good contact with each of the eight wires inside the RJ–45.

The following are step-by-step instructions for each RJ-45 crimp:

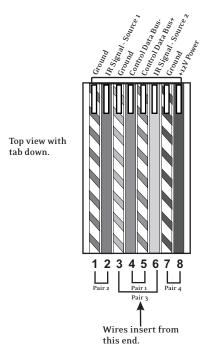
- 1 Slice and peel back about 2 to 3 inches of the Cat-5 jacket, exposing the inner wires.
- 2 Untwist each of the pairs. Arrange them in the proper order. The correct 568A color order from left to right is:
  - 1. Orange Stripe
  - 2. Orange
  - 3. Green Stripe
  - 4. Blue
  - 5. Blue Stripe
  - 6. Green
  - 7. Brown Stripe
  - 8. Brown
- 3 Once you have the wires in the proper color order, hold them between your thumb and forefinger.
- 4 Trim the wires to approximately ½ inch in length so they are even across the end. Note that a good crimp tool has a built-in trimmer for this purpose.
- While you are still holding the wires in their proper order, slide them into the open end of the RJ-45 connector with the tab pointing down. Be sure to push the wires all the way to end of the connector. The RJ-45 has a crimp point at the open end that should extend over the edge of the Cat-5 jacket.
- Place the RJ-45 into the crimp tool and squeeze the tool as far as possible. If you are using a ratchet style tool, you should squeeze it until it no longer clicks.

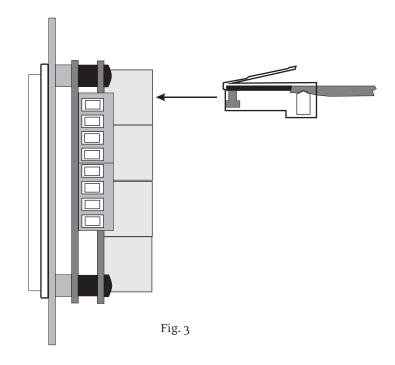
When the crimp is complete, the RJ-45 should be securely crimped to the jacket of the Cat-5. This insures a reliable connection. It is very important that each end of each run of Cat-5 is terminated the same way. Each of the Cat-5 cables is then inserted into one of the RJ-45 ports on the back of the Allport<sup>TM</sup> (fig. 3 – See pg. 8). Note that the order of the connections for each listening zone is not important to the operation of the system, but you should label each Cat-5 for its zone should you have to refer to them later.

Please note: The only way to know that the termination is accurate is to use a Cat-5 tester for each termination.







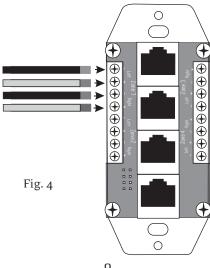


#### Terminating Speaker Wire

There are two types of speaker wire that can be used for distributing the audio signal to each listening zone. Each stereo output consists of a separate left and right positive and negative lead. To accommodate these, use two- or four-conductor wire. The two-conductor wire has a red and black strand inside the outer jacket. Red is used for the positive signal and black for the negative. The four-conductor wire has red, black, green, and white. In this case, the white is positive and the green is negative. Each BreatheAudio speaker output is aligned so the first two terminals are left negative and positive and the second two are right negative and positive. These terminations are located on the back of the Allport<sup>TM</sup> connection hub included with the system.

The insulation on each lead from the speaker wire needs to be stripped back about  $\frac{1}{2}$  inch exposing the brass wire. Each wire is then inserted into the appropriately labeled connection on the Allport<sup>TM</sup> and is secured by turning the screw above each wire clockwise until it is snug against the wire (fig. 4).

Each zone in the 2430 System is designed to handle a pair of 8-ohm speakers. Multiple pairs of speakers or speakers that present less than an 8-ohm load to the amplifier will cause the amplifier to overheat and shut down. This could cause permanent damage to the amplifier's output stage.

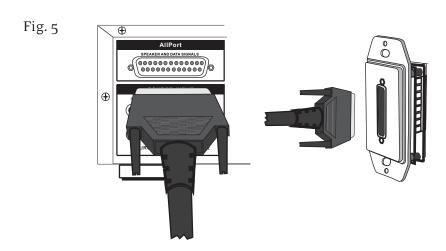




#### Installing the Allport<sup>™</sup> Multi-connection Hub

The Allport<sup>TM</sup> is a unique connection that enables the speaker and keypad connections to be made with one cable. Once the Cat-5 cables and speaker wires are connected to the back of the Allport<sup>TM</sup>, it can then be installed into a single-gang, low-voltage ring. These are available either as a ring designed to attach to a wall stud prior to the drywall installation, or installed after the drywall is finished using the type that has wings or "dog-ears" that screw down to the drywall. The Allport<sup>TM</sup> connection cable is 10 feet long, so the location of the Allport<sup>TM</sup> needs to be within 10 feet of the equipment.

Once the Allport<sup>TM</sup> is installed in the wall, the Allport<sup>TM</sup> cable can be installed and tightened down and the other end installed at the back of the 2430 amplifier and tightened down (fig. 5).



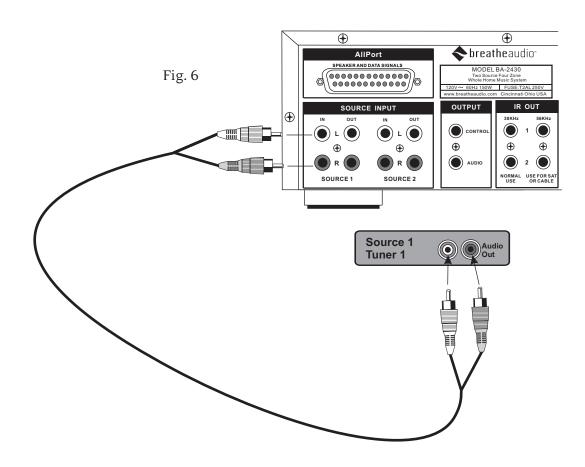
#### Proper Placement of the BA-2430 Main Amplifier

The main amplifier unit is designed to be located centrally with the audio source equipment and the Allport connection hub. Care should be taken to provide ample ventilation to adequately dissipate heat. It is best to leave  $1\frac{1}{2}$  to 2 inches of ventilation space around the amplifier.



#### Connecting the Audio Source Equipment

The BreatheAudio Systems use standard stereo RCA connections for the audio source signals. Up to two individual audio components can be plugged into the 2430 amplifier. Simply plug the red and white plugs into the corresponding colored connections on the back of the audio components and to the appropriate connections 1 and 2 on the back of the 2430 (fig. 6). Note that each audio input has a corresponding output that is used for sending the audio signal to another 2430 amplifier or an alternate audio source.

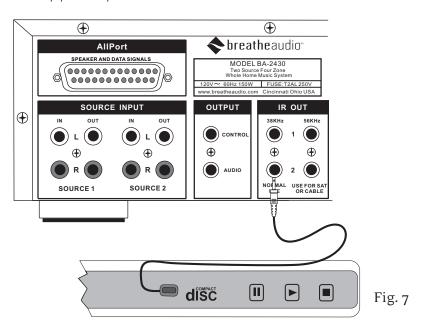




#### **Using IR Emitters**

Each BreatheAudio System has the ability to control the audio source equipment attached to it, using IR (infrared) signals. This is the control signal emitted by a wireless remote control. The 2430 package contains IR mouse emitters necessary for this kind of source function control. The emitters plug into these outputs and are attached over the IR receiver of the source equipment. When the wireless remote control is aimed at the keypad and one of the remote command buttons is pushed, that IR command is sent through the emitter and initiates that command for the source equipment (fig. 7).

The 2430 System has two choices of IR outputs for each of the two audio source inputs. Some source components operate at a lower IR carrier frequency (38,000 kHz), and some operate at a higher frequency (56,000 kHz). There is no way of knowing which output is appropriate, other than the source equipment may be nonresponsive, or have sporadic responses to issued commands for the source equipment. If this occurs, it is easily corrected by plugging the IR emitter into the other output. A general rule of thumb is that cable boxes and satellite TV receivers often respond to a higher frequency, and CD and DVD players typically respond to a lower frequency. Making the correct choice about which IR output to use depends on how well the audio source equipment responds to remote control commands.



#### Using the Output Section

The OUTPUT section of the 2430 amplifier is designed to control an external amplifier. This is necessary to provide enough power for multiple pairs of speakers in a single area or zone. The OUTPUT section is for use with zone 1 and works with the zone 1 keypad for volume.

The "Control" output is a voltage trigger used to turn an external amplifier on and off when the zone 1 keypad is turned on and off. This connection is made with a single mono cable with a mini [3.5 mm] jack on each end. Any amplifier you wish to control with the 2430 System requires a voltage trigger input.

The "Audio" output is a stereo mini (3.5 mm) jack and is used to provide an audio signal to the external amplifier. Most audio amplifiers have a stereo RCA-type input for the audio signal. This input has labeled "Left" and "Right" channels and is color coded with red and white. The necessary stereo mini connection to RCA cable is readily available at any electronics retailer.



#### Using the BA-200 Audio Amplifier

The BreatheAudio BA-200 stereo amplifier is designed to easily integrate with the 2430 System. The BA-200 is the same size chassis and will sit side-by-side with the 2430 on a standard double-space rack shelf.

The BA-200 includes the necessary voltage trigger cable and stereo mini to transfer the audio signal. Once the two connections are made, the BA-200 amplifier increases and decreases in volume, and turns on and off with the zone 1 keypad.

#### Changing the Zone Address for the BreatheAudio Keypads

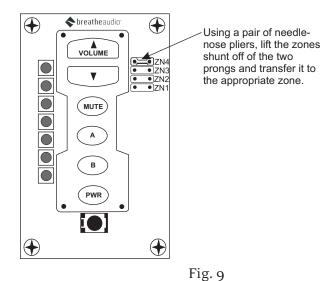
The 2430 System keypads are pre-addressed for each of the four zones. The label on the back of the keypad denotes the correct zone number for each keypad location (fig. 8).

Changing the zone setting for the keypads is easily done. To do this, remove the insert cover plate from the keypad. On the upper right hand side of the PC board are four pairs of wire jumpers. These are labeled ZN1, ZN2, ZN3, and ZN4. Simply move the plastic shunt from its current location to the appropriate zone number (fig. 9).

It is important to note that no two or more keypads in an installation can have the same zone setting. This will prevent the keypads from communicating.



Fig. 8





#### Teaching a Universal Remote Control Using the BA-2430RC Remote Control

The 2430 System includes a wireless remote control that will perform the same functions as the keypads. This is a useful tool for teaching the Breathe Audio keypad functions to a universal learning remote, which is a remote control that has the ability to learn the IR function codes for multiple pieces of audio source equipment. This allows control from one remote control, as opposed to several remotes from different manufacturers.

The process for teaching IR codes to a learning remote varies with each different manufacturer. Read the instructions for putting your learning remote in learn mode. Teaching is done by aiming the BreatheAudio remote at the learning remote and pressing the desired function button. The learning remote will indicate that it has received the code, and it will then store that code for future use.

## **Troubleshooting**

Symptom	Probable Cause	Remedy
The system goes completely dead and eventually turns back on.	The load on the amplifier is too great and it is going into thermal protection.	Make sure that you are not using more than one pair of speakers on each zone. Check the speaker rating and make sure it is not less than 8-ohms per speaker. Use an external amplifier to accommodate a heavier load, see page 11, Using the Output Section. Make sure that the main amplifier has sufficient ventilation.
The keypad's power button flashes and there is no functionality.	Two keypads in use have the same zone setting, or the Cat–5 cable is not properly terminated.	Check the zone label on the back of the keypads, and check the keypad zone setting under the insert cover plate, see page 12, Changing the Zone Address for the BreatheAudio Keypads. Using a Cat-5 tester, verify the RJ-45 termination on each end of the Cat-5.
IR control of audio source equipment is sporadic or does not function at all.	The IR emitter is not plugged into the correct IR output on the back of the 2430 amplifier. The IR emitter flasher is not located directly over the IR receiver on the audio source equipment. The IR emitter is not completely plugged into the amplifier output.	Change the emitter from the 38K output to the 56K output or vise versa. Have someone aim the source remote control at the keypad and push a function button. If the emitter is functioning properly, it will flash. Move the emitter around the face of the audio source equipment until it functions reliably. That is the proper location for the emitter. Press on the emitter jack at the back of the 2430 to make sure the emitter is fully plugged in.



# Troubleshooting

Symptom	Probable Cause	Remedy
The BreatheAudio remote control does not change the functionality of the keypad.	The batteries are bad or improperly installed.	Replace or reorient the batteries in the remote control.
The output from the speakers is not as good as it should be.	The positive and negative leads for the speakers are not properly installed. The speaker wires may not be making good contact at the Allport <sup>rm</sup> hub.	Check each speaker wire connection at the Allport <sup>TM</sup> hub. The proper orientation should be Left –, + and Right –,+. Make sure that each termination is tight and making good contact with bare wire.

# Specifications

Power Amplifier Section		Power Requirements
Continuous Âverage Output Power	15W	Power Supply
Two channels driven, 30–20kHz	@ 1% THD	Power Consumption all
Rated Distortion [1/2 power]	0.40%	channels driven to full-rated power
Rated Impedance	8 Ohms	Power Consumption average
Damping Factor	50+	operating conditions
Frequency Response (30–20kHz)	+/-3dB	Power Consumption no signal
Preamplifier Section		USA Safety Listing
Input Impedance	50k	_ Physical Specifications
Input Sensitivity for rated power	330mV RMS	Unit Size Millimeters
Input Overload	3V RMS	Unit Size Inches
TD 6		Shipping Size Millimeters
IR System	2	Shipping Size Inches
Source Outputs	2	- Unit Weight Kilograms
Output Drive Current	100mA	- Unit Weight Pounds
Output Drive Voltage	12V	- Shipping Weight Kilograms
Compatible with single and dual emitters		- Shipping Weight Pounds
NuVn reserves the right to change specifications without notice		- ZURURA WEISTH STITUTS

NuVo reserves the right to change specifications without notice.

120VAC/240VAC 50/60Hz 190VA (166W)

88VA (70W) 1/8 power

89 x 216 x 325 3.5 x 8.5 x 12.75 190 x 305 x 394

7.5 x 12 x 15.5

3.5 7.8

14VA (10W) ANSI/UL-6500



4940 Delhi Pike Cincinnati, OH 45238 USA 513.347.2180 www.breatheaudio.com